



LAKE COUNTY
Investing in People
and Our Communities

Net Zero Discussion

Energy & Environment Committee

November 6, 2019

Emission Reduction Strategies

- Install on-site solar power
- Increase facility energy efficiency
- Increase fleet fuel efficiency
- Purchase Renewable Energy Credits
 - Community solar subscriptions (Local RECs)
 - Green power offsets (National RECs)

High Level Summary

Emissions reduction achievable per strategy

	Low Estimate	High Estimate
On-site solar	3%	12%
Facility electrical efficiency	2%	7%
Fleet fuel reductions	.7%	1%
Facility natural gas efficiency	.5%	1%
Total	7%	20%

Clarify the Goal & Strategies

- Goal: 100% renewable energy by 20XX?
 - County operations only or countywide?
 - REC purchases: what % is acceptable?
- Strategies:
 - New buildings to achieve...
 - Net Zero certification?
 - LEED?
 - Energy Star?
 - Fleet Management
 - Require low emission vehicles as standard?
 - Scope 3 emissions
 - Carbon-neutral investment policy?
 - Employee commuting & business travel?

Sample Resolutions

- NOW, THEREFORE, BE IT RESOLVED...
 - The County will supply 100 percent of electricity for County operations from renewable energy through a combination of on-site renewable electricity generation, utility-supplied renewables, dedicated off-site renewable resources, and renewable energy credit purchases (REC); and
 - The County will prioritize renewable resources over the purchase of RECs with the intention of reducing reliance on RECs during the transition to 100 percent renewable resources over time.

Sample Resolutions

- NOW, THEREFORE, BE IT RESOLVED...
 - to reduce greenhouse gas emissions by 45 percent by 2030 and to reach net zero greenhouse gas emissions by 2050, and
 - that a plan shall be developed to achieve this goal, and that progress towards this goal shall be reported publicly by the Sustainability Program Manager in its annual Sustainability Report, and
 - that other local government agencies and businesses within the County are urged to join with us in adopting this greenhouse gas reduction goal to counter the most harmful effects of climate change.

Implementation Considerations

- Timeline
 - At least 5 years for full deployment of on-site solar
 - At least 10 years for full deployment of facility and fleet efficiency measures
- Relatively equal opportunities between departments
 - Fleet emissions per vehicle mile traveled
 - Employee engagement
 - Waste management and recycling
- Opportunities not equally available to all departments
 - On-site solar
 - Facility retrofits
 - Vacating aging facilities
 - New construction

Discussion Points

- Define the emissions reduction target
- Set the attainment year
- Mandate strategies or direct staff to develop a plan?
 - Facilities
 - Fleet
 - Scope 3
 - Department level requirements